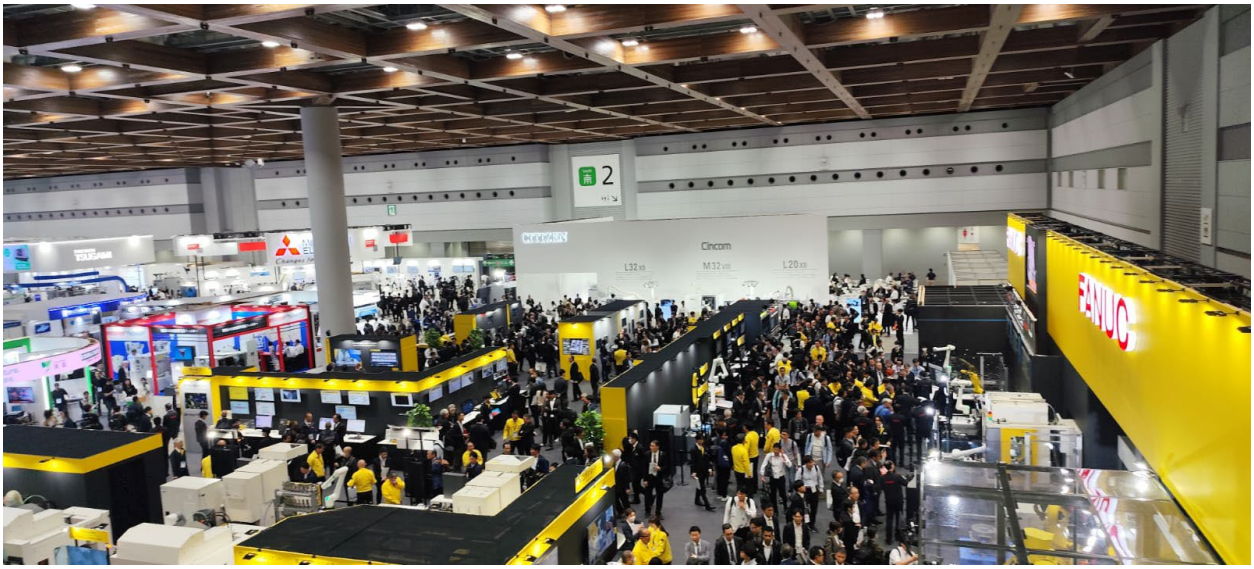
PSG Institute of Technology and Applied Research, Coimbatore - 641 062

International Visit

A delegation from PSG Institute of Technology and Applied Research (PSGiTech), comprising **Dr. P. Vijayakumar, Dean – Electrical and Computer Engineering; Dr. M. Sathiyanathan, Associate Professor and Head – Department of Robotics and Autonomous Systems; and Mr. Sivaganesan Vellingiri, Professor of Practice, EEE, and Founder & CEO, GrowiTech, Coimbatore,** undertook an international industrial and technology visit to Japan **from 26 to 31 October 2026.** The programme included participation in the **Japan International Machine Tool Fair (JIMTOF 2026) at Tokyo Big Sight, Japan.** The team also visited the FANUC manufacturing facility near Mount Fuji, a Mitsubishi Electric in Nagoya, and interacted with PSG alumni in Japan.

JIMTOF 2026 – Global Manufacturing Technology Showcase

JIMTOF 2026, the 33rd Japan International Machine Tool Fair, provided a broad view of the global machine-tool and manufacturing ecosystem. The official exhibitor directory organised the displays across six hall groups: East Halls 1–3, East Halls 7–8, West Halls 1–2 and Atrium, West Halls 3–4, South Halls 1–2, and South Halls 3–4. The published exhibition space was 92,850 m² across the East, West and South halls (excluding East Halls 4–6, which were closed for renovation). The official categories covered metal-cutting and metal-forming machine tools; machine-tool accessories and cutting tools; diamond and CBN tools; grinding wheels and abrasives; gears; hydraulic and pneumatic systems; precision and optical measurement; testing machinery; controllers and CAD/CAM software; and associated equipment, materials and technologies.



The delegation visited leading technology exhibitors and observed developments in industrial robotics, CNC machining, precision motion systems, automated production, electronics

manufacturing and intelligent factory solutions. Visits and interactions included FANUC, Mitsubishi Electric, HIWIN, Citizen Machinery and FUJI, among other exhibitors.

A key highlight was the meeting with **Dr. Yoshiharu Inaba, Director and Chairman of FANUC Corporation.** The delegation presented the prestigious book **'Fifth Brother'** as a gesture of goodwill and institutional regard. The interaction created an opportunity to explore future engagement in industrial exposure, technical exchange, student projects and research-oriented collaboration.



Handover our prestigious book 'Fifth Brother' to Dr. Yoshiharu Inaba, Director and Chairman of FANUC Corporation

FANUC – Factory Visit and Leadership Interaction | 27 October 2026

The delegation visited the FANUC manufacturing facility near Mount Fuji and studied its highly automated manufacturing environment. Particular attention was given to lights-out or 'dark factory' operations, where robots, CNC equipment, material-handling systems, monitoring and process control enable production with minimal human intervention. The visit offered practical insight into automation integration, continuous manufacturing, robotic machine tending and the role of reliability and standardisation in advanced factories.



Visit to FANUC Facility, Japan



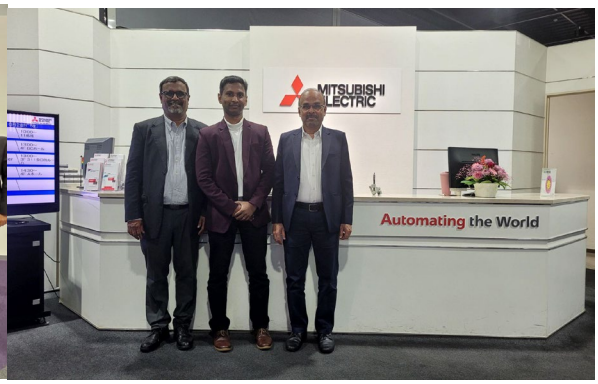
Interaction with Mr. Toshiyuki Suzuki President and CEO, FANUC India



Mitsubishi Electric, Nagoya | 28 October 2026

The delegation visited Mitsubishi Electric in Nagoya and gained exposure to advanced electronic manufacturing and factory automation. The visit highlighted integrated and highly automated production processes, robotics-assisted operations, precision handling, industrial control and monitoring. It demonstrated how electronics, sensors, control systems, robotics and production engineering are brought together to achieve quality, consistency and productivity in modern manufacturing facilities.





Mitsubishi Electric, Nagoya Plant Visit

Key Takeaway – Physical AI in Manufacturing

The central technological takeaway from JIMTOF 2026 and the industrial visits was the growing importance of Physical AI: the integration of artificial intelligence with robots, machines, sensors and real-world production systems. Manufacturing is progressing beyond fixed, pre-programmed automation towards intelligent systems that can perceive, interpret, decide and act in dynamic factory environments. The observed technologies point to opportunities in AI-enabled robotics, machine vision, autonomous material handling, predictive maintenance, adaptive process control, digital twins, human–robot collaboration and lights-out manufacturing.

Interaction with PSG Alumni in Japan | 30 October 2026

The delegation met PSG alumni based in Japan and discussed avenues to strengthen links between PSGiTech, Japanese industries and universities. The interaction explored possible student internships, industrial training, faculty visits, guest lectures by industry experts, joint research, collaborative student projects and pathways for higher studies and research exposure. Alumni connections were identified as a valuable bridge for developing sustained academic and industrial engagement.



PSG Alumni Meet at Japan

Outcomes

The visit generated the following action areas for consideration by PSGiTech: (i) develop a Physical AI and Smart Manufacturing project/laboratory roadmap; (ii) initiate industry-linked projects on robotic machine tending, AI-based visual inspection, autonomous mobile robots and predictive maintenance; (iii) explore structured student internship and faculty interaction opportunities with Japanese organisations; (iv) identify Japanese universities for research collaboration, student exchange and joint academic activities; (v) organise Japan technology seminars with PSG alumni and industrial experts; and (vi) translate the factory observations into case studies, capstone projects and curriculum enrichment for Robotics and AI students.

Overall, the visit strengthened the delegation's understanding of advanced manufacturing and provided valuable international exposure and networking opportunities. It reinforced the view that the future of manufacturing will be shaped by the convergence of AI, robotics, precision engineering and autonomous systems. The connections and insights gained can be developed into meaningful opportunities for students, faculty and the institution. The initiatives listed above are proposed follow-up possibilities and are not representations of signed agreements.